

**INDIAN BUREAU OF MINES  
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

**MCDR inspection REPORT  
Jabalpur regional office**

**Mine file No :** MP/KTN/LST- 240

**Mine code :** 38MPR47100

- (i) Name of the Inspecting : **G007** ) **RAGHUBIR SHARAN GARG**  
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Ritesh Agrawal & Bhawesh Agrawal, both sone of 1  
Official with  
Designation
- (iv) Date of Inspection : 14-DEC-22
- (v) Prev.inspection date : 14-SEP-21

**PART-I : GENERAL INFORMATION**

1. (a) **Mine Name** : **NANHWARA (32.48 HA)**
- (b) **Registration NO.** : **IBM/5052/2011**
- (c) Category : A Mechanised
- (d) Type of Working : Opencast
- (e) Postal address  
State : MADHYA PRADESH  
District : KATNI  
Village : NANHWARA  
Taluka : VIJAYRAGHAVGARH  
Post office : NANHWARA KALA  
Pin Code :  
FAX No. : 07622406378  
E-mail : shyamsunderstonelimeco@gma  
Phone : 07622406378 M.No9425801
- (f) Police Station : KYMORE
- (g) First opening date : 01-Aug-97
- (h) Weekly day of rest : SUN
2. Address for : SHRI TRILOKI NATH AGRAWAL  
correspondance : CIVIL LINES, KATNI (M.P.) 483501
3. (a) Lease Number : MPR1474  
(b) Lease area : 32.48 hect  
(c) Period of lease : 30  
(d) Date of Expiry : 07/05/2027
4. Mineral worked : LIMESTONE Main  
DOLOMITE Associated

## 5. Name and Address of the

Lessee : TRILOKI NATH AGRAWAL  
CIVIL LINES KATNI MADHYA  
PRADESH  
Phone:N. A.  
FAX :N. A.

Owner : TRILOKI NATH AGRAWAL  
CIVIL LINES KATNI MADHYA  
PRADESH  
Phone: N. A.  
FAX : N. A.

6. Date of approval of Mining : Mining Scheme rule 12 MCDR1988 08-AUG-08  
Plan/Scheme of Mining MP review under 17(1) MCR 2016 14-MAY-18

## PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

## Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No, tyhere is no backlog, however, as 8.98hect area of the lease are yet to be explored under general level of exploration accordingly proposal against 2022-23 have been made for drilling of 14 boreholes to proven the area for mineralisatio n.	As ther was no proposal no exploratory drilling carried out by the lessee during the year under review. As part of lease area i.e 8.98hect area are yet to be explored which have not commenced upto the date of inspection.	As there is a part of lease area yet to be explored for mineralisation which is against provision made under rule 12(4) of MCD Rules,2017, so violation of rule 12(4) of MCD Rules,2017 pointed out vide violation letter dated 19/12/2022
1b	Exploration over lease area for geological axis 1 or 2	32 hect of lease area already explored under G2 level. There were no prop[osal for additional exploration of unexplored part of the lease area of about 8.98hect.	Additional exploration work not carried out.	-
1c	Exploration Agencies and Expenditure in lakh rupees during the year	Not proposed	Not applicable	-
1d	Balance area to be explored to bring Geological axis in 1 or 2	Balance area 8.98hect, there was no proposal for exploration against the year under review.	Any additional exploratory work not carried out by the lessee.	As there is a part of lease area yet to be explored for mineralisation which is against provision made under rule 12(4) of MCD Rules,2017, so violation of rule 12(4) of MCD Rules,2017 pointed out vide violation letter

dated 19/12/2022

1e	Balance reserve as on 01/04/20	As on 01/04/2022 122- 5572327tonne and 222-1425960 tonne	A fresh mining plan of the lease area approved on 21/09/2022 and as per approved mining plan as on 01/04/2022 level wise reserves are as follows;- 122-5572327tonne and 222-1425960 tonne	-
1f	General remarks of inspecting officers on geology, exploration etc			Deposit is bedded stratiform and tabular deposit of regular habit. About 8.98hect area of lease are yet to be explored which was supposed to be carried out upto end of march,2022. As the entire lease area is not explored within stipulated time period violation of rule 12(4) of MCDR,2017 pointed out vide letter dated 19/12/2022.

---

Development :

Sl.No.	Item	Propasals	Actual work	Remarks
2a	Location of development w.r.t.lease area	Proposal in Quarry 1 , Between N2657125 to N2657250 and E454800 to E454800 to E454980 RMP for 2022- 23 to 2026-27 approved on 21/09/2022 in which proposal of working have been given in quarry 2 and quarry-4.	Extent of working in quarry no.1 were not seen to the extent of leteralmovment.. After approval of new RMP working were reported shifted in Quarry-2 and 4.	-

2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Proposed one bench in top soil of 3.0m height and two benches in mineral of 6.0m height each.	Separate benches in top soil and in mineral of proposed heights were seen.	No deviation
2c	Stripping ratio or ore to OB ratio	1:0.23	1:0.29	No deviation
2d	Quantity of topsoil generation in m3	5650cum	reportedly about 5680cum, record of top soil removal were not found maintained. Suggestion in this regard extended to the concerned at the site.	No deviation,
2e	Quantity of overburden generation in m3	17102cum	20000cum	No deviation
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc			Although development of the pit proposed against 2021-22 were not found to the extent to the proposal. Meanwhile a fresh RMP of the mine with proposal period from 2022-23 to 2026-27 submitted and got approved in which proposal of mining had changed from old proposed quarry no.1 to quarry no.2 & quarry no.4. benches in OB and mineral were found maintained. Development appears not bad looking the nature and type of deposit.

---

Exploitation:

---

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

---

3a	Number of pit proposed for production	One	presently Two, reportedly during reviewing year in one pit.	Presently working is going on as per the proposal of 2022-23 (New approved RMP)
3b	Quantity of ROM mineral production proposed	69810tonne	69750tonne	No deviation
3c	Recovery of sailable/usable mineral from ROM production	70%	70%	No deviation
3d	Quantity of mineral reject generation	Nil	Nil	No deviation
3e	Grade of mineral rejects generation and threshold value declared.	Not proposed	Not applicable	-
3f	Quantity of sub grade mineral generation.	Not proposed	Not generated	No deviation
3g	Grade of sub grade mineral generation	Not applicable	Not applicable	-
3h	Manual / Mechanised method adopted for segregating from ROM	mechanised method proposed	screeners and crushers were used for segragation and sizing	
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	Not Proposed	Not carried out.	
3j	Provision of drilling and blasting in mineral benches	Proposed with 2.4-2.5mX2-2.2mX2.8-2.9m blast pattern	As per proposal	No deviation
3k	Provision of mining machineries in mineral benches	Yes	Type of No.of units Mech, DUMPER SHOVEL 1 (HYDRAULIC Rock Drill	Capacity 16TONNE 2 1.200 CUM 48mmdia 1

3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Yes	Although 5- 6m high Mineral benches advanced in two level each of about 2.8-2.9m	No deviation
3m	Total area covered under excavation/pits	1950sqm against 2021-22	almost as per proposal.	
3n	Ore to OB ratio for the pit/mine during the year.	1:0.23	1:0.29	
3o	Total area put in use under different heads at the end of year	total area excavated 6.8hect total area under dump 1.72hect total area others 1.51 hect	total area excavated 5.8 hect total area under dump 0.9 hect total area others 0.8 hect	
3p	Production of ROM mineral during the last five year period as applicable	2017-18 0 2018-19 69885 2019-20 69555 2020-21 69838 2021-22 69810	2017-18 0 2018-19 18984 2019-20 26795 2020-21 52380 2021-22 69750	In production against 2021-22 achieved almost as per proposed one.
3q	General remarks of inspecting officers on method of mining etc.			Method of mining with opencast mechanised is most suitable looking the capital , infrastructure and demand availability with the lessee.

## Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	Separate waste material proposed. Generation of mineral reject not envisaged.	Separate dumping of waste material were seen. As per envisagement there is no reject generation in the mine	Separate record of top soil dumping not maintained.

4b	Location of topsoil, OB and mineral reject dumps	Only OB/Waste dumping in nearby area of BP No.15 in a belt of about 60mX60m width	OB/waste dump adjoining of quarry no 4 towards north of quarry and another lies at a distance of about 100m m away from northern face of quarry no.4.	Deviation in location of dumping were noticed and accordingly violation has been pointed out.
4c	Number of dumps within lease area and outside of lease area	Proposed 1, for OB/Waste material	8, These all the dumps are old dumps . Currently dump no 2 & 3 are being utilised for OB/waste dumping. Certain part of Waste are also utilised for proposed backlogged backfilling against on degraded statutory barrier zone.	Deviation in location of dumping were noticed and accordingly violation has been pointed out.
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	within UPL	within UPL	
4e	Number of active and alive dumps.	1	2	
4f	Number of dead dumps.	6	6	
4g	Number of dumps established.	None	Not applicable	
4h	Whether Retaining wall or garland drain all along dumps are there.	Garland drain proposed	150 m of garland drain found	
4i	Length of Retaining wall or garland drain all along dumps	not proposed	150 m of garland drain found	
4j	Number of settling ponds	01	01	
4k	Specific comments of inspecting officer on waste dump management			Only temporary dumping is proposed. The OB dump will be used for backfilling in the future.

---

Solid Waste Management - Backfilling:

---

Sl.No.	Item	Propasals	Actual work	Remarks
--------	------	-----------	-------------	---------

---

5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	full extraction of mineral from mined out area proposed before starting backfilling	It is true that part of area under mining area not mined out yet to start backfilling. However, backfilling in degraded statutory barrier zone noticed which is as per approved proposals.	Degraded statutory barrier zone almost backfilled as per proposal.
5b	Area under backfilling of mined out area	3200sq.m cummulative	almost as per approval	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	Topsoil to be used for spreading over backfilled area	Part of the top soil reportedly utilised for plantation purpose and partly utilised for spreading over backfilled area.	
5d	Total area fully reclaimed and rehabilitated	Not proposed	Not applicable	No deviation.
5e	General remarks of inspecting officers on backfilling and reclamation etc.			Pit at present ly not matured for backfilling and reclamation. backfilling over degraded statutory barrier zone particularly near BP No3/2 to BP No.4 ( As per Surface plan enclosed with RMP approved on 21/09/2022) were seen.

---

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	yes	Submitted as per proposal	No deviation
6b	Area available for rehabilitation (ha) .	3200sqm	more or less as per proposal	

---

6c	afforestation done (ha).	1400	1000	Looking the available reclaimed area no. of plantation appear satisfactory.
6e	Cumulative no .of plants	3200	1730	
6f	Any other method of rehabilitation	Not proposed	Not applied.	
6g	Cost incurred on watch and care during the year	Not proposed	Not available	
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling ( Lx B x D	cummulative 3200sqm	almost as per proposal	
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	3200sqm	Almost as per proposal	
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	3200sqm cummelative	As per proposal.	
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	Not proposed	Not applicable	
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	Not Proposed	not applicable	
6m	Compliance of rehabilitation of waste land within lease (i)afforestation	Not proposed	not applied	

6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	Not proposed	Not applied	
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	Not proposed	Not applied	
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	As per proposal	
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.			Mine is not matured for reclamation and rehabilitation . Only reclamation and rehabilitation of degraded area of statutory barrier zone was proposed and accordingly carried out by the lessee.

---

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	69810tonne	52129.910 tonne chemical grade and 45264.34 tonne cement grade total 97394.25tonne	Total dispatch is higher than the production during the year.
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	manual sorting	As proposed	
7c	Different grade of mineral sorted out at mines.	Chemical grade and cement grade	As per proposal	
7d	Any beneficiation process at mines	Not proposed only manual sorting	As per proposal	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	There is no issue related with mineral conservation. Mineral produced in lump form have a good market as a chemical grade through forming lime and rest fine and abd thin chip form are send to cement industry.
----	--	--

---

Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	yes, 5850cum. proposed for spreading over backfilled area of statutory barrier zone and some part of it for plantation	As per proposal. Although record of soil generated during the year under review not maintained seperately.	
8b	Concurrent use or storage of topsoil	Proposed for spreading over backfilled area and plantation purpose.	As per proposal	No deviation.
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	yes, there are proposal for separate dumping of OB, waste rock	As per proposal.	No deviation
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	There is no proposal against the year under review in this regard.	Although restoration of statutory barrier zone work reportedly carried out during begining of the year as restoration work of remaining part of the statutory barrier zone were not completed upto start of the year under review.Latter on it was dumped asdiscussed earlier.	

8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	Reclamation and rehabilitation proposed.	As per proposal.	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	Plantation proposed	plantation carried out although less in numbers than the proposed one.	Plantation done based on availability of reclaimed area.
8g	Survival rate	Not proposed	40%	
8h	Water sprinkling on roads to control airborne dust	yes,	There are well arrangement for water sprinkling. Evidences were noticed against water sprinkling.	
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area			Aesthetic beauty in and around mine area is not much satisfactory as in a large scale mining activities are going on in and surrounding of mining lease area since long back. Only statutory barrier zones are available where dumps of OB waste rock can be seen. Attempts of lessee towards plantation over reclaimed area seen very nice. health of plants are really good.

---

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	M.R. sbmitted upto- Dec-2022 A.R. submitted upto- 2021-22	Monthly as well as Annual Return were submitted.	

9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	yes,	Shri Ayush Kumar Soni was appointed as Mining Eng. and Shri Prakash Chand Prajapat as Geologist	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Given,	Lease area (surface area) utilisation as at the end of year (hectares) (i) Covered under current (O/C) Workings  5.8 hect  (ii) Occupied by plant, buildings, residential, welfare buildings & roads 0.1 hect (iii) Other Purpose dump 0.9 hect	OK
9d	Scrutiny of Annual return on afforestation	given	Within lease area --1000 & Out side lease area 300	ok
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	given	Mineral Reject generation Nil, grade not applicable.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Given	ROM stock-Nil Grade wise stock - Chemical grade 679.18tonne and Cement Grade 35.66 tonne	OK
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Given	Sale Value Chemical grade Rs.291/63 Cement Grade Rs.271/92 Ex Mine Price Chemical Grade Rs. 329/50 and Cement Grade Rs.271/92 Production cost Rs. 250/ per tonne	There is a difference in sale value and Ex mine price of Chemical grade limestone.
9h	Scrutiny of Annual return on fixed assets	given	Rs 3224396/-	-

9k	Scrutiny of Annual return on mining machineries	yes	Type of machinery Capacity of each unit No.of units DUMPER  16.000 TONNE  2 SHOVEL (HYDRAULIC) 1.200 CUM  1	OK
----	--	-----	--	----

---

**Details of violations observed during current inspection and compliance position of violation pointed out**

Violation observed			Show cause position		
Rule NO.	Issued on	Compliance on	Rule NO.	Issued on	Compliance on
MCDR17	Rule 11(1)	19-DEC-22			
MCDR17	Rule 12(4)	19-DEC-22			
	Rule 45(7)	19-DEC-22			

**Date :**

**(RAGHUBIR SHARAN GARG)**

Indian Bureau of Mines